FIG. 1(a) Prior Art

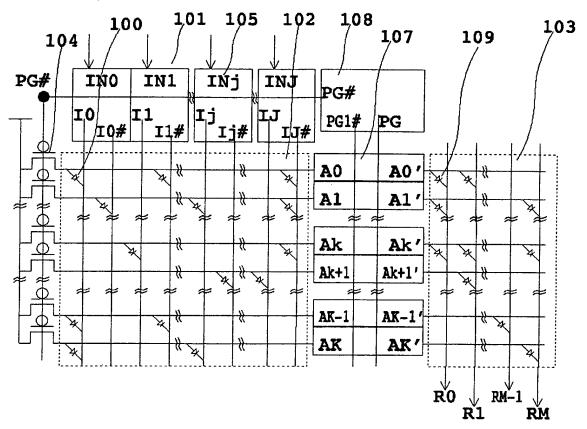


FIG. 1(b) Prior Art

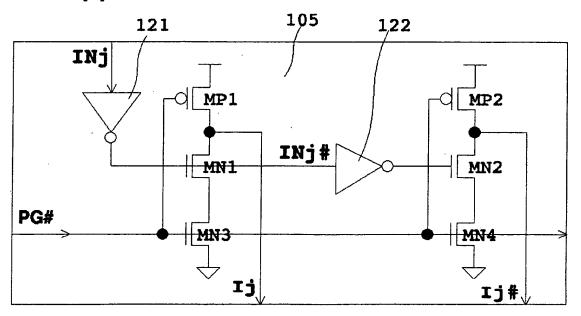
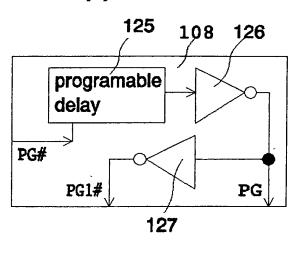


FIG. 1(c) Prior Art

FIG. 1(d) Pri r Art



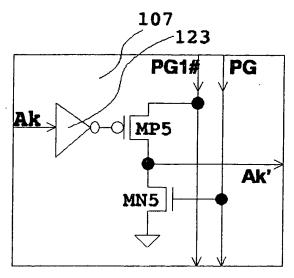
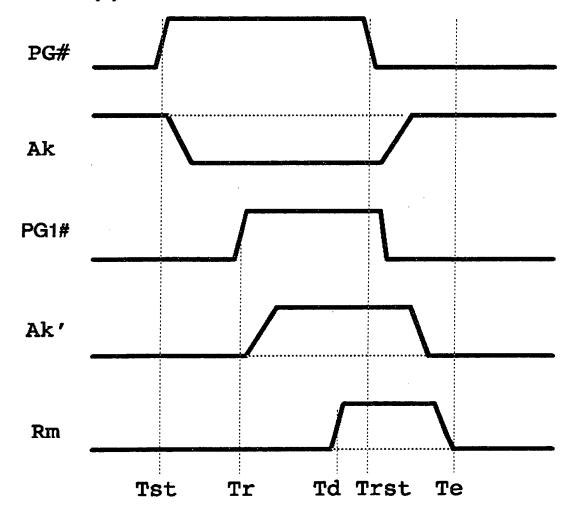


FIG. 1(e)Prior Art



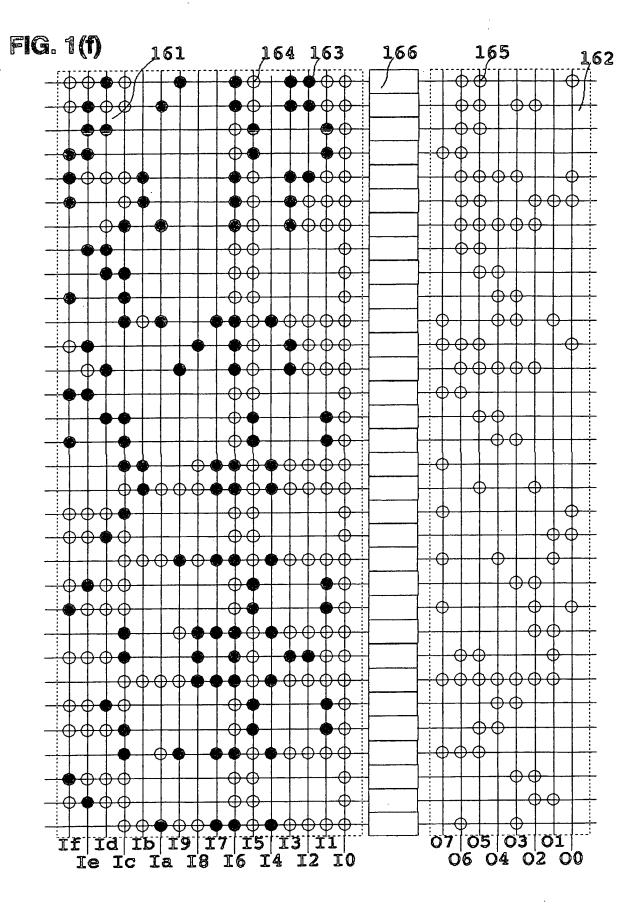


FIG. 2(a)

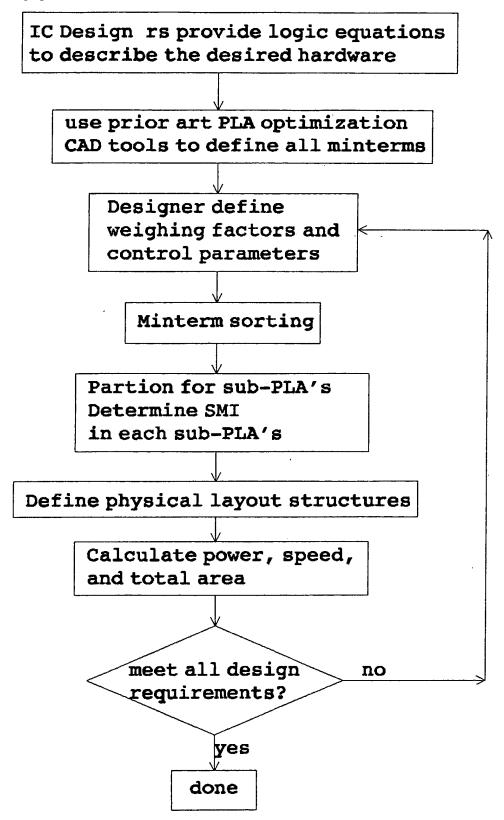


FIG. 2(b)

Select the first mintern based on pre-defined criteria

select the next minterm from remaining minterms that is the most similar to the last selected minterm

Place the selected minterm next to the last selected minterm

All minterms no sorted?

yes

Sorting done

FIG. 2(c)

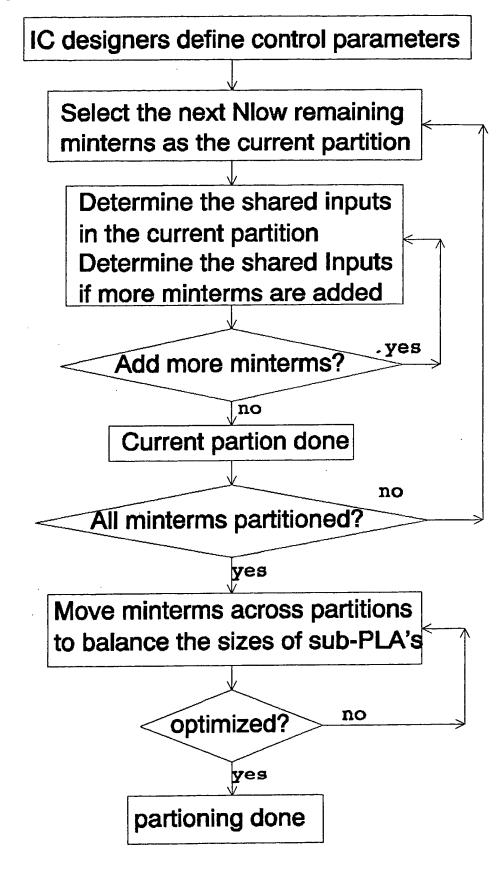


FIG. 2(d)

Simplify the AND array of each sub-PLA

Simplify the OR array of each sub-PLA

Construct Physical Layout of each sub-PLA

Complete the whole PLA by connecting all sub-PLA's with input circuits and output circuits

of the present invention

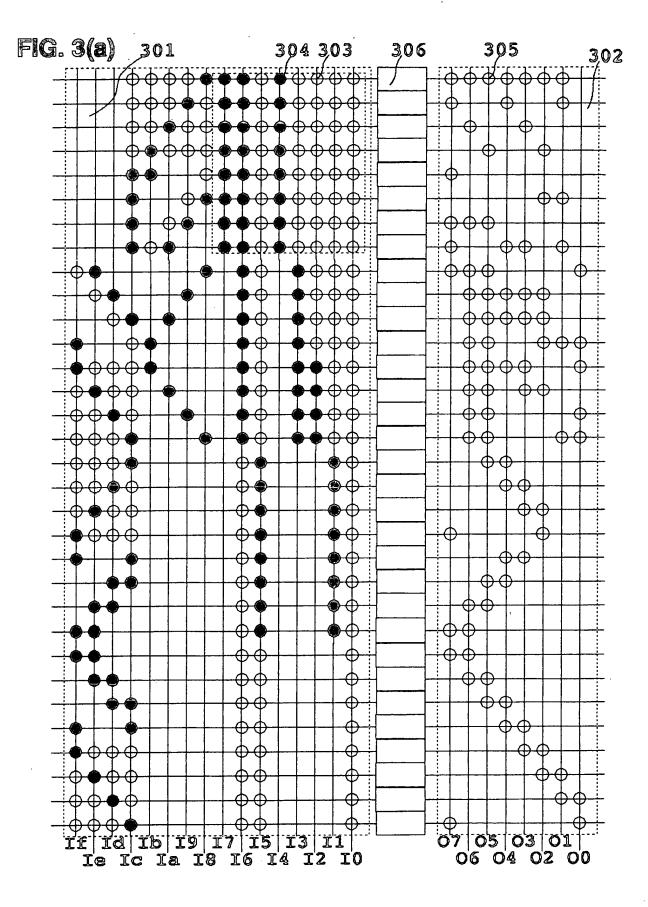


FIG. 3(b)

